

Title (en)

LIQUID CRYSTAL DISPLAY PANEL AND METHOD FOR MANUFACTURING THE SAME, AND LIQUID CRYSTAL DISPLAY

Title (de)

FLÜSSIGKRISTALLANZEIGESCHIRM UND DESSEN HERSTELLUNGSVERFAHREN, UND EINE FLÜSSIGKRISTALLANZEIGE

Title (fr)

PANNEAU D'AFFICHAGE A CRISTAUX LIQUIDES ET SON PROCEDE DE FABRICATION, ET AFFICHAGE A CRISTAUX LIQUIDES

Publication

EP 1220018 A4 20060816 (EN)

Application

EP 01954377 A 20010730

Priority

- JP 0106547 W 20010730
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- JP 2000231013 A 20000731

Abstract (en)

[origin: EP1220018A1] A liquid crystal display panel 1, to which an external horizontal drive circuit is connected in a TAB, COG, or other form, capable of performing aging by a substrate alone when image display is possible by connecting the external drive circuit, comprising an active matrix display area 2, a vertical drive circuit 4, and a horizontal aging circuit 5 for supplying signals to a plurality of source lines at one time provided on a substrate 3. Also, a medium- to small-sized active matrix type liquid crystal display apparatus used for a PDA etc. able to be produced at a high quality and a low cost without using a time sharing driving method and provided with a horizontal drive circuit as an external circuit, wherein a vertical drive circuit is formed integrally with a liquid crystal display area on a glass substrate by using low temperature PolySi TFTs, a horizontal drive circuit is connected to a liquid crystal display panel substrate by COG, and output terminals of a driver IC constituting the horizontal drive circuit and source lines Ls are in a one-to-one correspondence. <IMAGE>

IPC 1-7

G02F 1/13; **G02F 1/1362**; **G09G 3/00**; **G09G 3/36**

IPC 8 full level

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Citation (search report)

- [X] US 6023075 A 20000208 - YAMAZAKI SHUNPEI [JP] & US 6292182 B1 20010918 - PARK JIN SAN [KR], et al
- [A] PATENT ABSTRACTS OF JAPAN vol. 1999, no. 11 30 September 1999 (1999-09-30)
- See references of WO 0210851A1

Citation (examination)

JP H11338376 A 19991210 - SHARP KK

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EP1708166A3; CN103280173A; US7522159B2; US8040312B2; WO2007034364A1

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